

App. No. 10/632,386
Amendment Dated March 2, 2006
Reply to Office Action of December 2, 2005

Listing of claims:

1. (Currently amended) A computer-readable medium encoded with computer-executable instructions for performing a method that manages objects within a cache, the method comprising:

obtaining a policy associated with the objects, wherein the policy identifies at least two factors for determining a weight for each object;

determining the a weight for each object, wherein the weight is calculated by summing values with an absolute age of the object, and further wherein the values are associated with the factors of a plurality of objects stored in a cache;

determining a rank for each object of the plurality of objects based on the weight;

storing the a rank for each object of the plurality of objects; and

deleting a low priority object from within the cache, wherein the low priority object has having the lowest rank among the plurality of objects.

2. (Currently amended) The computer-readable medium of claim 1, wherein the factors are associated with deleting a low priority object from within the cache is based on a policy comprising at least one of: storage considerations, sensitive information, and a the possibility of being accessed again.

3. (Canceled)

4. (Currently amended) The computer-readable medium of claim 1, wherein determining the weight further comprises ~~includes~~ applying an adjustment to ~~for~~ each factor ~~of a plurality of factors~~ associated with the object.

5. (Currently amended) The computer-readable medium of claim 4, wherein the adjustment ~~for each of the plurality of factors~~ is obtained from the a policy.

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6. (Original) The computer-readable medium of claim 5, wherein the policy comprises a group policy for several computers.
7. (Original) The computer-readable medium of claim 5, wherein the policy is defined via an XML document.
8. (Original) The computer-readable medium of claim 5, wherein the policy is defined via a user interface.
9. (Currently amended) The computer-readable medium of claim 1, wherein storing the rank comprises storing the weight within a link in a linked list, the link being associated with one object of the plurality of objects and the link including a reference to the one object that uniquely identifies the one object within the cache.
10. (Cancelled)
11. (Currently amended) The computer-readable medium ~~of claim~~ of claim 1 ~~10~~, wherein the absolute age value comprises a the number of seconds since a pre-determined time.
12. (Currently amended) The computer-readable medium method of claim 1, wherein the further comprising obtaining a policy that describes an adjustment for the a plurality of factors associated with the objects, the adjustment being used when determining the weight.
13. (Original) The computer-readable medium of claim 1, wherein the determining the weight is performed whenever the object is accessed.
14. (Currently amended) The computer-readable medium of claim 1, wherein determining the weight is performed whenever the a policy that affects the weight determination is changed.

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15. (Currently amended) A computer-readable medium encoded with computer-executable instructions for performing a method that evicts objects from a cache, the method comprising:

obtaining a policy associated with the objects, wherein the policy identifies at least two factors for determining a weight for each object related to the purpose for eviction;
determining the weight for each object, wherein the weight is calculated by summing values with an absolute age of the object, and further wherein the values are associated with the factors;

accessing a queue corresponding to the policy;

determining a rank for each object in the queue based on the weight;

selecting an object within the queue based on the rank ranking of the object within the queue;

deleting the object from the queue; and

deleting the object from the cache.

16. (Currently amended) The computer-readable medium of claim 15, wherein the policy ~~defines at least two factors and specifies an adjustment for each factor of the at least two factors.~~

17. (Original) The computer-readable medium of claim 15, wherein the policy is a group policy applicable to several computers.

18. (Original) The computer-readable medium of claim 15, wherein the policy is defined via an XML document.

19. (Original) The computer-readable medium of claim 15, wherein the policy is defined via a user interface.

20. (Original) The computer-readable medium of claim 15, wherein selecting the object comprises identifying a link out of a plurality of links in a link list, each of the plurality of links

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being associated with an object ~~one of a plurality of objects~~ stored in the cache, the identified link having the lowest importance.

21. (Original) The computer-readable medium of claim 15, further comprising deleting the object from another queue that ranks the objects based on another policy.

22. (Original) The computer-readable medium of claim 15, further comprising accessing metadata that identifies a location within the cache for the object and that identifies a link associated with the object for each of a plurality of queues.

23. (Original) The computer-readable medium of claim 22, further comprising deleting the object from the plurality of queues based on the link associated with the object for each queue.

24. (Currently amended) A computer-readable medium having computer-executable components with instructions for managing objects within a cache, the instructions comprising:

a first component configured to download objects from a remote computer to a local computer; and

a second component configured to:

~~assign a weight to each object that is downloaded, to store the weight, and to store the object in the cache, the second component further configured to perform an eviction process within the cache, the eviction process comprising:~~

obtain obtaining a policy associated with the objects, wherein the policy identifies at least two factors for determining a weight for each object, related to the purpose for eviction;

determine the weight for each object, wherein the weight is calculated by summing values with an absolute age of the object, and further wherein the values are associated with the factors,

access accessing a queue corresponding to the policy,[[;]]

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determine a rank for each object in the queue based on the weight.
select ~~selecting~~ an object within the queue based on the rank ~~ranking~~ of the object
within the queue. ~~[[;]]~~
delete ~~deleting~~ the object from the queue. ~~[[;]]~~ and
delete ~~deleting~~ the object from the cache.

25. (Currently amended) The computer-readable medium of claim 24, wherein ~~selecting the object is based on at least two factors are obtained from a policy that lists the at least two factors~~ and prioritizes the at least two factors based on importance.

26. (Original) The computer-readable medium of claim 25, wherein the policy is a group policy applicable to several computers.

27. (Original) The computer-readable medium of claim 25, wherein the policy is defined via an XML document.

28. (Original) The computer-readable medium of claim 25, wherein the policy is defined via a user interface.

29. (Currently amended) A system for managing objects within a cache, comprising:
a processor; and
a memory into which a plurality of instructions are loaded, the plurality of instructions performing a method comprising:

obtaining a policy associated with the objects, wherein the policy identifies at least two factors for determining a weight for each object,

determining the a weight for each object, wherein the weight is calculated by summing values with an absolute age of the object, and further wherein the values are associated with the factors, of a plurality of objects stored in a cache;

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determining a rank for each object ~~of the plurality of objects~~ based on the weight,[[:]]

storing ~~the~~ a rank for each object, ~~of the plurality of objects~~; and

deleting a low priority object from within the cache, wherein the low priority object ~~has~~ ~~having~~ the lowest rank among the ~~plurality of objects~~.

30. (Currently amended) The system of claim 29, wherein the factors are associated with deleting a low priority object from within the cache is based on a policy comprising at least one of: storage considerations, sensitive information, and the possibility of being accessed again.

31. (Cancelled)

32. (Currently amended) The system of claim 29, wherein determining the weight further comprises includes applying an adjustment to ~~for~~ each factor ~~of a plurality of factors~~ associated with the object.

33. (Currently amended) The system of claim 32, wherein the relative importance of the ~~plurality of factors~~ is obtained from a policy.

34. (Currently amended) A system for evicting objects from within a cache, comprising:
a processor; and

a memory into which a plurality of instructions are loaded, the plurality of instructions performing a method comprising:

calculating a weight for an object by summing values with an absolute age of the object, wherein the values are associated with at least two factors;

locating ~~the~~ an object ~~in the~~ from within a cache based on ~~the~~ a weight that has been assigned to the object, the weight being based on at least two factors and indicating that the object is the least important object in the cache,[[:]] and

deleting the object from the cache.

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35. (Currently amended) The system of claim 34, wherein the ~~at least two~~ factors are obtained from a policy ~~that lists the at least two factors~~.